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C-A OPERATIONS PROCEDURES MANUAL

ATTACHMENT

4.120.10.d 10 O'Clock (PEER 15) Sweep Tests

_	C-A-OP	M Procedures in w	hich this Attachmen	t is used.	
	4.120.10				
_		Hand Proce	ssed Changes		
	HPC No.	<u>Date</u>	Page Nos.	<u>Initials</u>	
Castillo			Signature on F		
		Collide	r-Accelerator Depar	tment Chairman	D

4.120.10.d 10 O'Clock (PEER 15) Sweep Tests

PASS ANNUAL ACCEPTANCE TEST PROTOCOL

Division A Software Filename and Checksum: Title:	Checksum:	
Division B Software Filename and Checksum: Title:	Checksum:	
Initial testing complete:		
Test Team Leader's Name (Print):	_ Life Number:	
Test Team Leader's Name (Sign):	Date:/	
Acceptance test procedure complete (following repairs and retesting if required):		
Test Team Leader's Name (Print):	Life Number:	
Test Team Leader's Name (Sign):	Date://	
Test results reviewed by:		
Safety Section Head's Name (Print):	Life Number:	
Safety Section Head's Name (Sign):	Date://	
Test results accepted by Radiation Safety Committee:		
RSC Member's Name (Print):	Life Number:	
RSC Member's Name (Sign):	Date://	

1.1		To Sweep	Zone 9Z1	
		CLOSE VERIFY	Gates 9GS1-I/O, 9EL1, and 9GI1 Gates 9GS1-I/O, 9EL1, and 9GI1 are	CLOSED
		RESET	Gate 9EL1	
		VERIFY	Gate 9EL1	RESET
	П	PLACE VERIFY	Peer 15 in Mode 16 Peer 15 is in Controlled Access	MODE 16
		ACTIVATE	Check station 9CS1	MODE 10
		VERIFY	Check station 9CS1 indicator (Area Secured)	BLINKS ONCE
		ACTIVATE	Check station 9CS2	
		VERIFY	Check station 9CS2 indicator (Area Secured)	BLINKS ONCE
		ACTIVATE	Check station 9CS3	DI INIZO
		VERIFY	Check station 9CS3 indicator (Area Secured)	BLINKS ONCE
	П	ACTIVATE VERIFY	Check station 9CS4 Check station 9CS4 indicator (Area Secured)	ON
	Ш	VEIGHT 1	check station yes 4 indicator (Titea secured)	011
		EXIT	Gate 9GI1 with Simultaneous Release	
		VERIFY	MCR sees Zone 9Z1	SWEPT
	C	heck for test a	cceptance of Sweep of Zone 9Z1	
1.2		To Sweep	Zone 10Z1	
	П	CLOSE VERIFY	Gates 9GI1-I&O , 10GE1 , 10GI1-I&O Gates 9GI1-I&O , 10GE1 , 10GI1-I&O are	CLOSED
	ш	PLACE	Peer 15 in Mode 16	CLOSED
		VERIFY	Peer 15 is in Controlled Access	MODE 16
		ACTIVATE	Check station 10XCS1	
		VERIFY	Check station 10XCS1 indicator (Area Secured)	BLINKS ONCE
		ACTIVATE VERIFY	Check station 10XCS2 Check station 10XCS2 indicator (Area Secured)	ON
	Ц	A ITIVIT, I	Check Station 10ACS2 indicator (Area Secureu)	ON
	П	EXIT VERIFY	Gate 10GE1 with Simultaneous Release MCR sees Zone 10Z1	SWEPT
			2022	~
	Cl	heck for test ac	eceptance of Sweep of Zone 10Z1	

1.3		To Sweep	Zone 10Z2	
		CLOSE	Gates 10GI1-I&O, 10EL1, 10ED1, 11GSI-I&O	CLOSED
		VERIFY	Gates 10GI1-I&O, 10EL1, 10ED1, 11GSI-I&O are Gate 10EL1, 10ED1	CLOSED
		RESET VERIFY	Gate 10EL1, 10ED1 Gate 10EL1, 10ED1 are	RESET
	Ш	PLACE	Peer 15 in Mode 16	KESE I
		VERIFY	Peer 15 is in Controlled Access	MODE 16
		VERIFY	MCR sees Zone 10Z1	NOT SWEPT
		ACTIVATE	Check station 10CS5	
		VERIFY	Check station 10CS5 indicator (Area Secured)	BLINKS ONCE
		ACTIVATE	Check station 10CS4	
		VERIFY	Check station 10CS4 indicator (Area Secured)	BLINKS ONCE
		ACTIVATE	Check station 10CS2	
		VERIFY	Check station 10CS2 indicator (Area Secured)	BLINKS ONCE
	_	ACTIVATE	Check station 10CS3	DI INIZO
		VERIFY	Check station 10CS3 indicator (Area Secured)	BLINKS ONCE
		ACTIVATE	Check station 10CS1	ONCE
		VERIFY	Check station 10CS1 indicator (Area Secured)	ON
		EXIT	Gate 10GI1 with Simultaneous Release	
		VERIFY	MCR sees Zone 10Z2	SWEPT
	C	heck for test a	acceptance of Sweep of Zone 10Z2	
1.4	Tes		f sweep with legal opening of gate 9GS1 with Peer 17 in CA, Mode 1, Mode, 16 and loss of sweep with illegal opening of gate 9GS1.	6, and Peer 15 in
		PLACE	Peers 17 & 15 in Controlled Access	
		VERIFY	Peer 17 is in	MODE 16
		VERIFY	Peer 15 is in	MODE 16
		VERIFY	The warning lights and LED message on both sides of the gate indicate:	
		CVV INTE	Call MCR for Crossover Amber	ON
	_	SWEEP	Zone 8Z2	CAMEDE
		VERIFY	MCR sees Zone 8Z2	SWEPT
	П	SWEEP VERIFY	Zone 9Z1 MCR sees Zone 9Z1	SWEPT

	VERIFY	9GS1 gatebox lights are as fo		
		· /	Amber	ON
	ODEN	()	Amber	ON
	OPEN	Gate 9GS1-I with Simultane MCR sees Zone 9Z1	ous Release	CWEDT
	VERIFY	MCR sees Zone 9Z1 MCR sees Zone 8Z2		SWEPT SWEPT
	VERIFY			
	VERIFY	MCR sees Peer 17 is in		MODE 16
	VERIFY	MCR sees Peer 15 is in	11	MODE 16
	VERIFY	9GS1 gatebox lights are as fo Area Secured (S11) A	amber	ON
		` /	Amber	ON
	CLOSE	Gate 9GS1-I	Ambei	OIT
	OPEN	Gate 9GS1-I with without Si	multaneous Release	
	VERIFY	MCR sees Zone 9Z1		NOT
				SWEPT
	VERIFY	MCR sees Zone 8Z2		NOT
				SWEPT
	VERIFY	MCR sees Peer 15 is in		MODE 16
	VERIFY	MCR sees Peer 15 is in		MODE 16
	VERIFY	9GS1 gatebox lights are as fo		
		()	Amber	OFF
	CLOCE	Area Secured (S10) A Gate 9GS1-I	amber	OFF
	CLOSE	Gate 9GS1-1		
in (9G	CA, Mode 16 S1 Fest of retention	and Peer 15 in CA, Mode 16	ep with legal opening of gate 9GS1 and loss of sweep with illegal open gate 9GS1 with Peer 17 in CA, Mode with illegal opening of gate 9GS1	ning of gate
_	PLACE	Peer 17 in Controlled Acces	s, Mode 17	MODE 15
	VERIFY	Peer 17 is in		MODE 16
	VERIFY	Peer 15 is in		MODE 16
	VERIFY	indicate:	message on both sides of the gate	
	OH ETT		Amber	ON
_	SWEEP	Zone 8Z2		CWEDT
	VERIFY	MCR sees Zone 8Z2		SWEPT
	SWEEP VERIFY	Zone 9Z1 MCR sees Zone 9Z1		SWEPT
_	, LIVII I			~ · · · = -

		Area Secured (S11)	Amber	ON
		Area Secured (S10)	Amber	ON
	OPEN	Gate 9GS1-I with Simu	ltaneous Release	
	VERIFY	MCR sees Zone 9Z1		SWEPT
	VERIFY	MCR sees Zone 8Z2		SWEPT
	VERIFY	MCR sees Peer 17 is in		MODE 17
	VERIFY	MCR sees Peer 15 is in		MODE 16
	VERIFY	9GS1 gatebox lights are	as follows:	
		Area Secured (S11)	Amber	ON
		Area Secured (S10)	Amber	ON
	CLOSE	Gate 9GS1-I		
	OPEN	Gate 9GS1-I with with	out Simultaneous Release	
	VERIFY	MCR sees Zone 9Z1		NOT
_				SWEPT
	VERIFY	MCR sees Zone 8Z2		NOT
				SWEPT
	VERIFY	MCR sees Peer 17 is in		MODE 17
	VERIFY	MCR sees Peer 15 is in		MODE 16
	VERIFY	9GS1 gatebox lights are	as follows:	
		Area Secured (S11)	Amber	OFF
		Area Secured (S10)	Amber	OFF
	CLOSE	Gate 9GS1-I		
9 G	S1. Cest of retention	on of sweep with legal openi	de 16, and loss of sweep with illegal open ng of gate 9GS1 with Peer 17 in CA, Mode weep with illegal opening of gate 9GS1.	5 5
	PLACE	Peers 15 & 17 in Contro	olled Access, Mode 17	
	VERIFY	Peer 15 is in	•	MODE 17
	VERIFY	Peer 17 is in		MODE 17
	VERIFY	The warning lights and l	LED message on both sides of the gate	
		indicate:	-	
		Call MCR for Crossov	er Amber	ON
	SWEEP	Zone 8Z2		
	VERIFY	MCR sees Zone 8Z2		SWEPT
	SWEEP	Zone 9Z1		
	VERIFY	MCR sees Zone 9Z1		SWEPT
	VERIFY	9GS1 gatebox lights are		
		Area Secured (S11)	Amber	ON
		Area Secured (S10)	Amber	ON

9GS1 gatebox lights are as follows:

□ VERIFY

	OPEN	Gate 9GS1-I with Simula	taneous Release	
	VERIFY	MCR sees Zone 9Z1		SWEPT
	VERIFY	MCR sees Zone 8Z2		SWEPT
	VERIFY	MCR sees Peer 15 is in		MODE 17
	VERIFY	MCR sees Peer 17 is in		MODE 17
	VERIFY	9GS1 gatebox lights are	as follows:	
		Area Secured (S11)	Amber	ON
		Area Secured (S10)	Amber	ON
	CLOSE	Gate 9GS1-I		
	OPEN	Gate 9GS1-I with withou	ut Simultaneous Release	
	VERIFY	MCR sees Zone 9Z1		NOT
				SWEPT
	VERIFY	MCR sees Zone 8Z2		NOT
				SWEPT
		MCR sees Peer 15 is in		MODE 17
		MCR sees Peer 17 is in		MODE 17
	VERIFY	9GS1 gatebox lights are		
		Area Secured (S11)	Amber	OFF
	CLOSE	Area Secured (S10) Gate 9GS1-I	Amber	OFF
	CA, Mode 1' GS1.	7, and Peer 15 in CA, Mod	e 17, and loss of sweep wit	th illegal opening of gate
		END OF	TEST PROCEDURE	
TTL: Si	ign for compl	etion of initial testing:		
		<i>8</i> <u></u>		
]	Date: /_	/		
TTL: Si	ign for compl	etion of final testing:		
]	Date: /_			